



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 24, 2017

Danielle A. Larochelle  
Regulatory Manager  
Cleary Chemicals, LLC  
c/o Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Subject: Label Amendment – Adding supplemental label for conifers and other label changes  
Product Name: 3336 F  
EPA Registration Number: 1001-69  
Application Date: 8/26/2016  
Decision Number: 521079

Dear Danielle A. Larochelle:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at [mellor.nathan@epa.gov](mailto:mellor.nathan@epa.gov).



Shaja B. Joyner, Product Manager 20  
Fungicide-Herbicide Branch  
Registration Division 7505P

Enclosure

[COMMERCIAL USE LABEL LANGUAGE]

Group	1	Fungicide
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**3336<sup>®</sup> F**

**TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE**

[ABN: CAVALIER F TURF AND ORNAMENTAL FUNGICIDE]  
[ABN: CAVALIER F TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE]  
[ABN: CAVALIER F]

Intended for Professional Applicators Only. For the prevention and control of turf diseases and the diseases of annual and perennial flowers, bedding plants, foliage plants, ground covers, deciduous and evergreen trees and shrubs, and conifer nurseries.

**ACTIVE INGREDIENT:**

Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioallophanate]) .....41.25%

**OTHER INGREDIENTS**..... 58.75%

**TOTAL**..... 100.00%

This product contains 4.0 lb thiophanate-methyl per gallon.

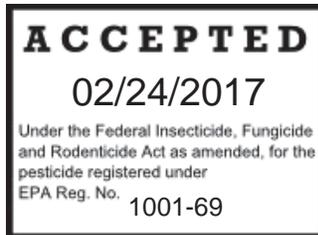
**Keep Out Of Reach Of Children**

**CAUTION**

[Optional referral statement for use with booklet label:  
See booklet label for [FIRST AID,] PRECAUTIONARY STATEMENTS, [and] DIRECTIONS FOR USE [and  
STORAGE and DISPOSAL INFORMATION]]

**For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840**

EPA Reg. No. 1001-69  
EPA Est. No. \_\_\_\_\_



Manufactured for:  
**Cleary Chemicals LLC**  
11901 S. Austin Avenue  
Alsip, IL 60803

**NET CONTENTS:**

[Nufarm Grow a better tomorrow.]  
[Grow a better tomorrow.]

<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>IF INHALED</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
<b>IF IN EYES</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
<b>IF SWALLOWED</b>	Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also contact (877) 325-1840 for emergency medical treatment information.	

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Handlers mixing, loading and applying the product as a dip must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant apron.

All other mixers and loaders and applicators must wear:

- Long sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Chemical-resistant apron for mixers, loaders and other handlers exposed to concentrate.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### **USER SAFETY RECOMMENDATIONS:**

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

## DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling, and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exemption: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposures.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets out of treated areas until sprays have dried.

## COMMERCIAL TURF AND ORNAMENTALS

### PRODUCT INFORMATION

3336 F is a broad spectrum fungicide exhibiting preventative, curative and systemic properties. It is useful on a wide variety of turf and ornamental disease problems. Apply 3336 F with ground or overhead equipment, using sufficient volume of spray to provide thorough coverage.

For use only by certified applicators or those under their immediate supervision. Do not apply with fixed wing or rotary aircraft. Not for use on turf being grown for sale or other commercial use as sod. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. Chemigation instructions follow "Directions For Use". Read and follow these instructions carefully for this method of application.

**Resistance Management:** To avoid the development of tolerant strains of fungi, use 3336 F with fungicides of different modes of action. Cleary Chemical does not recommend the use of products containing thiabendazole in combination or rotation with 3336 F. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance. If, after using 3336 F as specified, and the treatment is not effective, a tolerant strain of fungi may be present. Consult your local Cleary Chemical representative, your State Agricultural Experiment Station, or your State Cooperative Extension Service for proper disease identification and advice on the prompt use of some other suitable fungicide or disease control strategy. As long as specified precautions are followed, 3336 F can remain useful for disease control.

**Mixing Instructions:** SHAKE WELL BEFORE USING. Some settling may occur during prolonged periods of non-use. High pH environments cause a shortened tank life for diluted product. The buffering of tank water to

pH 6-7 prior to the addition of 3336 F is specified. Add required amount of 3336 F to partially filled tank (1/2 total volume), agitate by mechanical or hydraulic means, add tank mix product if used (**do not tank mix 3336 F with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur**; for more information, see “Tank Mixing Instructions” below), agitate again and then add remaining required amount of water. Continuous agitation is specified to keep the material in proper suspension. For best results, use spray mixture the same day it is prepared.

**Tank Mixing Instructions:** 3336 F is compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: water soluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials such as fertilizers. No claim of compatibility with other products is implied. **Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur.** Consult the intended tank mix partner product label for appropriate application rates and use instructions. Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. 3336 F may be applied in conjunction with chemically neutral liquid fertilizers. Avoid application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, as they may cause a degradation of the pesticide, resulting in reduced performance.

**Note:** It is the pesticide user's responsibility to ensure that all products included in the tank mix are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## CHEMIGATION

### For Ornamental Use Only

- Apply this product only through pressurized drench (flood), sprinkler, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation systems.
- Do not connect chemigation system to a public water system.
- Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, contact your State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- Should the need arise, a person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments.

### Pressurized Drench (Flood) System

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump, (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

**Sprinkler and Drip (Trickle) Chemigation**

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump, (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

**TURF APPLICATIONS**

3336 F may be used on all fine turf applications (home lawns, parks, athletic fields, schools, and day care centers), and Golf Courses (greens, tees, fairways, and aprons) of cool and warm season grasses such as Bentgrass, Bluegrass, Bermudagrass, Fescue, Ryegrass, St. Augustinegrass, Zoysiagrass, or their mixtures. 3336 F is not phytotoxic to any of the above mentioned grasses when used in accordance with the label.

3336 F is to be used for the prevention and control of the diseases shown in Table 3. It has both preventative and curative activity.

**Restrictions:**

Do not graze animals on treated turf.  
Do not feed clippings to livestock or poultry.

**Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation systems. Spray uniformly over the area to be treated. Apply specified amounts in sufficient water to obtain thorough coverage of treatment area (2-4 gal per 1,000 sq ft is suggested). When treating golf greens, always treat aprons. Use the highest specified rate under conditions of severe disease pressure. For best results, apply after mowing or avoid mowing twelve hours after application. For root pathogens, lightly water the treatment area to move the fungicide into the active root zone with one to two tenths inch of water. Excessive irrigation may move application below active root zone and reduce application effectiveness. Green design and drainage will influence irrigation practices. When tank mixing with contact action fungicides for foliar diseases, allow applications to dry on leaf surfaces. Normal watering may proceed after sprays have dried.

**Table 1: Maximum Individual Application Rates and Minimum Retreatment Intervals**

Do not exceed the amounts per acre or reduce the retreatment interval.

Use Site	Maximum Application Rate of 3336 F	Minimum Retreatment Interval	Restrictions
Residential or Public Areas	0.68 Gallons/Acre (2 fl oz / 1,000 sq ft)	14 days	
Golf Course Tees, Greens, Aprons	2.04 Gallons/Acre (6 fl oz / 1,000 sq ft)	14 days	
Golf Course Fairways –except Florida	1.36 Gallons/Acre (4 fl oz / 1,000 sq ft)	14 days	Excludes Florida
Golf Course Fairways – Florida Only	0.68 Gallon/Acre (2 fl oz / 1,000 sq ft)	14 days	Florida only.

**Table 2: Maximum Annual Application Rates**

Do not exceed the following amounts of product per acre per year

Use Site	Maximum Gallons 3336 F per Acre per Year	Fluid Ounces 3336 F per 1,000 sq ft	Restrictions
Residential or Public Areas	2.72 Gallons	8 fl oz	4 Applications per year
Golf Course Tees, Greens, Aprons	5.44 Gallons	16 fl oz	
Golf Course Fairways –except Florida	1.36 Gallons	4 fl oz	Excludes Florida
Golf Course Fairways – Florida Only	0.68 Gallon	2 fl oz	Florida only

**Table 3: Turf Disease Control**

Disease(s) Controlled	Rate of 3336 F fl oz/1,000 sq ft	Application Instructions*
<b>Anthracnose, basal</b> <i>Colletotrichum cereale</i>	4-6	For prevention in historic areas of disease pressure, apply twice at 14 day interval when soil temperature reaches 60°F. For curative control, apply when disease first appears and continue at 14 day interval. Rotations and/or tank mix combinations with chlorothalonil or triadimefon can be utilized.
<b>Anthracnose, foliar</b> <i>Colletotrichum cereale</i>	2-4	
<b>Bermudagrass Decline</b> <i>Gaeumannomyces graminis</i> var. <i>graminis</i> <b>Take-All-Patch</b> <i>Gaeumannomyces graminis</i> var. <i>avenae</i>	4-6	Apply in mid-July or when disease symptoms first appear and repeat at 14 day intervals for suppression. Use higher rates under most severe disease expression. Water treatment into active root zone. Follow proper agronomic recommendations to maintain plant vigor.
<b>Cool Season Brown Patch</b> <i>Rhizoctonia cerealis</i> <b>Necrotic Ring Spot</b> <i>Leptosphaeria korrea</i> <b>Spring Dead Spot</b> <i>Leptosphaeria korrea</i>	4-6	For prevention, apply in fall before turf has stopped all growth activity. Apply second application in early spring when soil temperatures reach 55-60°F or when disease first appears. For curative action, apply when disease first appears in early spring and continue at 14 day intervals. Water treatment into active root zone.
<b>Coprinus Snow Mold</b> <i>Coprinus psychromorbidus</i>	4-6	Apply 2 treatments at 21 day interval in late fall to early winter, with the last application made just prior to first permanent snow cover. Rotations and/or tank mix combinations with PCNB can be utilized.
<b>Dollar Spot</b> <i>Moellerodiscus</i> , <i>Lanzia</i> , <i>Sclerotinia</i> <b>Large Brown Patch</b> <i>Rhizoctonia solani</i> <b>Ascochyta Leaf Blight</b> <i>Ascochyta</i> <b>Copper Spot</b> <i>Gloeocercospora sorghi</i> <b>Fusarium Patch</b> <i>Fusarium nivale</i> <b>Red Thread</b> <i>Laetisaria fuciformis</i> <b>Zoysia Patch</b> <i>Rhizoctonia solani</i>	2-4	Apply when disease first appears and continue at 14 day intervals. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb (Protect™) can be utilized.

Disease(s) Controlled	Rate of 3336 F fl oz/1,000 sq ft	Application Instructions*
<b>Fusarium Blight</b> <i>Fusarium roseum, F. triticum</i>	4-6	Apply when disease first appears at 14 day intervals.
<b>Gray Leaf Spot (Blast)</b> <i>Pyricularia grisea</i>	4-6	Apply preventative application before expected period of disease development. Continue applications at 14 day intervals.
<b>Leaf Spot</b> <i>Drechslera</i> <b>Leaf, Crown, and Root Diseases</b> <i>Bipolaris, Curvularia, Exserohilum</i>	4-6	Apply when disease first appears and make applications at 14 day intervals as needed. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb (Protect) are specified under severe conditions.
<b>Pink Snow Mold</b> <i>Microdochium nivale</i>	2-4	Apply in late fall to early winter before turf has stopped all growth activity. A second application may be used in combination with chlorothalonil, PCNB, or thiram (Spotrete™) at specified rates before snow cover or during spring thaw.
<b>Rusts</b> <i>Puccinia, Uromyces</i>	4-6	Apply at 14 day intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or mancozeb (Protect) are specified.
<b>Stripe Smut</b> <i>Ustilago striiformis</i>	4-6	Apply at 14 day intervals when disease first appears. For prevention, apply in spring and fall.
<b>Summer Patch</b> <i>Magnaporthe poae</i>	4-6	For prevention, apply 3 applications starting late April or early May using 21 day intervals. Rotations and/or tank mix combinations may be used as part of the three application program. For suppression, apply at 14 day intervals when disease first appears. Water treatment into active root zone.
<b>Bentgrass Dead Spot</b> <i>Ophiosphaerella agrostis</i>	4-6	For prevention, apply in early June or based upon local Extension Service recommendations. Apply at 14 day intervals. Rotations and/or tank mix combinations may be used for season long disease prevention.

\*Observe the maximum individual application rates and maximum annual application limits in Table 2.

## COMMERCIAL HORTICULTURAL APPLICATIONS

**Nursery, Greenhouse, Landscape & Interiorscape  
Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, Deciduous and  
Evergreen Trees and Shrubs, and Conifer Nurseries**

### Restrictions:

Do not use fruits, nuts or sap from treated trees as food or feed.

**Product Information:** 3336 F is a broad spectrum systemic fungicide which controls a variety of foliar, stem, and root diseases on a wide range of commercially important plants. 3336 F is also effective as a pre-plant dip on cuttings and bulbs. For soil drench applications, best crop protection is achieved with preventative treatments repeated every 21-28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7-14 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent is specified for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker is specified to enhance product performance in wet weather conditions or during periods of overhead irrigation. 3336 F may be applied as a ground application using hand held, mechanical or motorized spray equipment, or as a chemigation spray or through an applicable sprinkler irrigation system; or as an overhead application where applicable. See specific instructions below.

**Note:** The "Directions For Use" of this product reflect the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate results. This product is not specified for use on Swedish Ivy (*Plectranthus australis*), Boston Fern (*Nephrolepis exhalta*), and Easter Cactus (*Hatiora gaertneri*).

**Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation, flood, or drip systems. Begin applications when disease first appears and repeat at 7-14 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. For hand held, mechanical, or motorized applications, mix 8-24 fl oz of 3336 F per 100 gal water (0.5-1.5 teaspoons per gal) and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Spray volume may range up to 400 gallons of finished spray per acre depending upon plant species and plant growth stage. For applications through irrigation systems, refer to use rates indicated in the foliar application chart. For small volume applications less than 100 gallons, divide specified rate by 16 to get the number of teaspoons of 3336 F per gal.

**Special Instructions for Proportional Injectors (e.g. Dosatron, Dosmatic, Anderson, and similar equipment)**

Determine the treatment rate for crop and pathogen from the foliar application table below. Determine the injection ratio for the individual system to be used for application. For systems using a 1:100 ratio, measure and add the exact amount of product per 100 gallons to each gallon of water in a stock bucket or tank. For systems using a 1:200 ratio, multiply the specified amount per 100 gallons by 2. For systems using a 1:50 ratio, divide the specified amount per 100 gallons added by 2. For systems using a 1:16 ratio, divide the specified amount per 100 gallons by 6. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ratio of 1:100 is specified for most greenhouse and nursery systems.

**Restriction:** Do not apply more than 3.0 lb AI per year.

**FOLIAR APPLICATION\***

Diseases Controlled	Rate of 3336 F	Application Instructions
<b>Anthraco</b> <i>Colletotrichum</i>	12-16 fl oz/100 gallons	Apply as buds break or at first sign of disease. Repeat at 7-14 day intervals as needed during disease period.
<b>Black Spot of Rose</b> <i>Diplocarpon rosae</i>	12-16 fl oz/100 gallons	Apply early summer or at first sign of disease. Repeat every 7-14 days as needed during disease period.
<b>Brown Rot and Blight</b> <i>Monilinia, Sclerotinia, Whetzellinia</i>	12-16 fl oz/100 gallons	Apply late spring or at first sign of disease. Repeat every 7-14 days as needed during disease period.
<b>Fusicladium and Venturia Leaf Scabs</b> on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	12-16 fl oz/100 gallons	Apply as buds break. Repeat every 7-14 days during disease period. Effective control requires coverage during leaf expansion. Rotations and/or tank mix combinations with mancozeb (Protect), chlorothalonil or propiconazole can be utilized. Do not use fruit from treated crabapple or pear trees for food purposes.

Diseases Controlled	Rate of 3336 F	Application Instructions
<b>Leaf Spots and Blights caused by:</b> <i>Ascochyta, Blumeriella, Botrytis, Cercospora, Cocomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma</i>	12-16 fl oz/100 gallons	Apply when disease symptoms first appear. Repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil can be utilized.
<b>Ovulinia Blight</b>	8-16 fl oz/100 gallons	Apply as flowers open. Repeat every 7-14 days during disease period.
<b>Powdery Mildews</b> <i>Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca</i>	12-24 fl oz/100 gallons	Apply when disease first appears and repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or triadimefon can be utilized.
<b>Rust Diseases caused by:</b> <i>Puccinia, Gymnosporangium, Uromyces</i>	12-16 fl oz/100 gallons	Apply late spring or when symptoms first appear. Repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil are specified.
<b>Tip Blight of Pine</b> <i>Sphaeropsis sapinea, Diplodia pinea</i>	16-24 fl oz/100 gallons	Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 14 days later. Thorough coverage is essential for optimal disease control.
<b>Twig Blights, Cankers, and Diebacks</b> <i>Diaporthe, Kabatina, Phoma, Phomopsis</i>	16-24 fl oz/100 gallons	Apply when symptoms first appear. Repeat every 7-14 days during disease period.

\* For Cut Flowers do not exceed 0.5 lb ai/acre/application

### Backyard Fruit and Nut Trees

Certified applicators:

If this product is used on a tree producing fruits or nuts which will be used for food or feed:

- Do not apply to home orchards/backyard fruit or nut trees after fruit or nut set.
- Do not apply to fruit or nut trees other than almond, apple, pear, pecan, pistachio, apricot, cherry, nectarine, peach, plum or prune.
- For bearing fruit and nut trees, use the following application rates. (For a list of diseases controlled see the table below for Foliar Application).

Crop	Application Rate Fluid Ounces Product/Acre	Annual Maximum Fluid Ounces Product/Acre
Almond, Apple, Pear, Pecan, Apricot, Cherry, Nectarine, Peach, Plum or Prune	22.5 (0.7 lb a.i./A)	67 (2.1 lb a.i./A/year)
Pistachio	22.5 (0.7 lb a.i./A)	45 (1.4 lb a.i./A/year)

**VEGETABLE TRANSPLANTS (Greenhouse and Nursery Use Only):**

**Not intended for field vegetable production**

Vegetable Transplants	Diseases Controlled	Rate of 3336 F	Application Instructions
<b>Beans, dry and succulent including:</b> Lima bean, Snap bean, Kidney bean, Mung bean, Navy bean, Pinto bean, Wax bean, Broad bean, Fava bean, Asparagus bean, Blackeyed pea, Cowpea, Sweet lupine, White lupine, White sweet lupine, Grain lupine, Chick pea, Garbanzo bean	<b>Anthracnose</b> <i>Colletotrichum</i>	33-44 fl oz/Acre <sup>1</sup>	For one application: Apply when 100% of plants have at least one open bloom or when conditions are favorable for disease development.
	<b>Gray Mold</b> <i>Botrytis</i>	or	or
	<b>White Mold</b> <i>Sclerotinia</i>	22-33 fl oz/Acre <sup>2</sup>	For multiple applications: Make the first application when 10% to 30% of plants have at least one open bloom and follow with sequential applications on a 4 to 7 day interval. Apply prior to the development of disease for best results.
<ul style="list-style-type: none"> <li>◆ Do not apply more than 90 fl oz of product (2.8 lb a.i.)/A/year.</li> <li>◆ <b>Pre-harvest interval: California only</b>, 14 days for succulent beans, 28 days for dry beans and lima beans.</li> <li>◆ <b>Pre-harvest interval: all other states</b>, 14 days for succulent beans and lima beans, 28 days for dry beans</li> </ul>			
<b>CUCURBITS</b> (Cantaloupe, Casaba, Cucumbers, Melons, Pumpkins, Summer and Winter Squash, and Watermelons)	<b>Anthracnose*</b> <i>Colletotrichum</i>	12 fl oz/Acre <sup>3</sup>	Begin applications when plants begin to run or when disease first appears, and repeat at 7 to 14 day intervals.
	<b>Gummy Stem Blight*</b> <i>Didymella</i>		For Target Spot use at 7 day intervals.
	<b>Powdery Mildew</b> <i>Erysiphe,</i> <i>Sphaerotheca,</i> <i>Podosphaera</i>		
	<b>Target Spot*</b> <i>Corynespora</i>		
	<b>Belly Rots*</b> <i>Rhizoctonia,</i> <i>Fusarium</i>	12 fl oz/Acre <sup>3</sup>	Apply in sufficient volume to allow runoff to the soil. Will not control <i>Pythium</i> or <i>Phytophthora</i> .
<ul style="list-style-type: none"> <li>◆ Do not apply more than 67 fl oz of product (2.1 lb a.i.)/A/year from any combination of application timings.</li> <li>◆ Follow resistance management guidelines under Directions for Use.</li> </ul>			

\* Not for this use in California.

<sup>1</sup> Apply, for example, in 50-200 gallons of water per acre. In volumes of water below 50 gallons, use a minimum of 2.1 pounds per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 2.8 pounds per acre. For example, if 200 gallons of water are required, use 1.4 pounds per 100 gallons.

<sup>2</sup> Apply, for example, in 50-200 gallons of water per acre. In volumes of water below 50 gallons, use a minimum of 1.4 pounds per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 2.1 pounds per acre. For example, if 200 gallons of water are required, use 1.05 pounds per 100 gallons.

<sup>3</sup> Apply, for example, in 50-200 gallons of water per acre. In volumes of water below 50 gallons, use a minimum of 0.7 pounds per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 0.7 pounds per acre. For example, if 200 gallons of water are required, use 0.35 pounds per 100 gallons.

**SOIL DRENCH APPLICATION**

Diseases Controlled	Rate of 3336 F	Application Instructions
<p><b>Stem, Crown, and Root Rots caused by:</b>  <i>Botrytis, Cythindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia</i></p> <p><b>Black Root Rot</b>  <i>Thielaviopsis</i></p>	<p>8-16            fl oz/100 gal</p>	<p>Apply as a drench or directed spray using hand held, mechanical or motorized spray equipment or as a chemigation drench or directed spray using applicable sprinkler irrigation systems after seeding or sticking of cuttings (8 fl oz) or after transplanting (12-16 fl oz) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is 0.25 –3.0 pints of finished mixture per sq ft depending on the media type and depth (about 4 fl oz per 4 inch pot or 8 fl oz per 6 inch pot). Repeat every 21-28 days for adequate crop protection.</p> <p><b>Note:</b> 3336 F does not control <i>Pythium</i> or <i>Phytophthora</i>. Tank mix combinations with metalaxyl, mefenoxam, etridiazole, propamocarb, fosetyl-Al or mono- and dipotassium salts of phosphorous acid are required for the control of <i>Pythium</i> and <i>Phytophthora</i>.</p>

**PLANT DIP APPLICATION**

Diseases Controlled	Rate of 3336 F	Applicationn Instructions
<p><b>Plant or Cutting Diseases caused by:</b>  <i>Botrytis, Cythindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis</i></p>	<p>16-24            fl oz/100 gal</p>	<p>Immerse plants or cuttings for 10-15 min. Remove and allow to drain.</p> <p><b>Note:</b> Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.</p>
<p><b>Bulb, Corm, and Rhizome Rots caused by:</b>  <i>Botrytis, Cythindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis</i></p>	<p>16-24            fl oz/100 gal</p>	<p>Soak cleaned bulbs for 15-30 min in warm solution (80-85° F). For storage disease prevention, treat bulbs preferably within 48 hours after digging. After treatment, dry well before storing. If bulbs are for forcing, treat bulbs that have been heat-cured.</p> <p><b>Note:</b> Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.</p>

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, contain/re-capture spillage and dispose of in accordance with the Pesticide Disposal instructions listed below.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling (Non-refillable container):** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

**Residue Removal:** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

## WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

## LIMITATION OF LIABILITY

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**If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

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The logo for Cleary, featuring a green swoosh to the left of the word "Cleary" in a bold, black, sans-serif font.

AN EXCLUSIVE LINE FROM



[HOMEOWNER USE LABEL LANGUAGE]

**3336<sup>®</sup> F**

**TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE**

[ABN: CAVALIER F TURF AND ORNAMENTAL FUNGICIDE]  
[ABN: CAVALIER F TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE]  
[ABN: CAVALIER F]

For the prevention and control of turf diseases and the diseases of annual and perennial flowers, bedding plants, foliage plants, ground covers, plus deciduous and evergreen trees and shrubs.

**ACTIVE INGREDIENT:**

Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioallophanate]) .....41.25%

**OTHER INGREDIENTS**..... 58.75%

**TOTAL**..... 100.00%

This product contains 4.0 lb thiophanate-methyl per gallon.

**Keep Out Of Reach Of Children**

**CAUTION**

[Optional referral statement for use with booklet label:  
See booklet label for [FIRST AID,] PRECAUTIONARY STATEMENTS, [and] DIRECTIONS FOR USE [and  
STORAGE and DISPOSAL INFORMATION]]

**For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840**

EPA Reg. No. 1001-69  
EPA Est. No. \_\_\_\_\_

**Manufactured for:**  
**Cleary Chemicals LLC**  
**11901 S. Austin Avenue**  
**Alsip, IL 60803**

**NET CONTENTS:**

**[Nufarm Grow a better tomorrow.]**  
**[Grow a better tomorrow.]**

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## ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate.

## DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or residential grounds.

## PRODUCT INFORMATION

3336 F is a broad-spectrum fungicide exhibiting preventative, curative and systemic properties. It is useful on a wide variety of ornamental disease problems. Apply 3336 F with ground or overhead equipment, using sufficient volume of spray to provide thorough coverage. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. Do not apply this product in a way that will contact any person, or pet, either directly or through drift. Keep people and pets out of the area during application. Do not allow people or pets to enter the treated area until sprays have dried.

## HORTICULTURAL APPLICATIONS

**Nursery, Greenhouse, Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs**

### Restrictions:

For use on ornamentals only. Do not apply to home orchard/fruit trees.

**Product Information:** 3336 F is a broad-spectrum systemic fungicide, which controls a variety of foliar, stem, and root diseases on a wide range of commercially important plants. 3336 F is also effective as a pre-plant dip on cuttings and bulbs. For soil drench applications, best crop protection is achieved with preventative treatments repeated every 21-28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7-14 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent is specified for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker is specified to enhance product performance in wet weather conditions or during periods of overhead irrigation. **Note:** The "Directions For Use" of this product reflects the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate results. This product is not specified for use on Swedish Ivy (*Plectranthus australis*), Boston Fern (*Nephrolepis exalta*), and Easter Cactus (*Hatiora gaertneri*).

**Application Instructions:** Apply material with properly calibrated spray equipment. Begin applications when disease first appears and repeat at 7-14 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. Apply 0.5-1.5 teaspoons of 3336 F per 1 gallon water as a full coverage spray to drip for the prevention and control of the diseases listed below. Typical residential spray volume is 150 gallons per acre. Continuous agitation is required to keep product in suspension.

**Restriction:** For Foliar applications, do not exceed 1.8 pounds active ingredient (1.8 quarts product) per treated acre in a single application.

## FOLIAR APPLICATION

Diseases Controlled	Rate of 3336 F per gallon	Application Instructions
<b>Anthracnose</b> <i>Colletotrichum</i>	½ – 1 ½ teaspoons	Apply as buds break or at first signs of disease. Repeat at 7-14 day intervals as needed during disease period.
<b>Black Spot of Rose</b> <i>Diplocarpon rosae</i>	½ – 1 ½ teaspoons	Apply early summer or at first sign of disease. Repeat every 7-14 days as needed during disease period.
<b>Brown Rot and Blight</b> <i>Monilinia, Sclerotinia, Whetzellinia</i>	½ – 1 ½ teaspoons	Apply late spring or at first sign of disease. Repeat every 7-14 days as needed during disease period.
<b>Fusicladium and Venturia Leaf Scabs on:</b> Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	½ – 1 ½ teaspoons	Apply as buds break. Repeat every 7-14 days as needed during disease period. Effective control requires coverage during leaf expansion. Rotations and/or tank mix combinations with mancozeb (Protect), chlorothalonil or propiconazole can be utilized. Do not use fruit from treated crabapple or pear trees for food purposes.
<b>Leaf Spots and Blights caused by:</b> <i>Ascochyta, Blumeriella, Botrytis,</i> <i>Cercospora, Cocomyces, Corynespora,</i> <i>Curvularia, Didymellina, Entomosporium,</i> <i>Fabraea, Fusarium, Ramularia,</i> <i>Rhizoctonia, Marssonina, Mycosphaerella,</i> <i>Myrothecium, Phoma, Physalospora,</i> <i>Schizothyrium, Septoria, Sphaceloma</i>	½ – 1 ½ teaspoons	Apply when disease symptoms first appear. Repeat every 7-14 days as needed during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil can be utilized.
<b>Ovulinia Blight</b>	½ – 1 ½ teaspoons	Apply as flowers open. Repeat every 7-14 days as needed during disease period.
<b>Powdery Mildews</b> <i>Erysiphe, Microsphaera, Phyllactinia,</i> <i>Podosphaera, Oidium, Sphaerotheca</i>	1-1 ½ teaspoons	Apply when disease first appears and repeat every 7-14 days or as needed. Rotations and/or tank mix combinations with mancozeb (Protect) or triadimefon can be utilized.
<b>Rust Diseases caused by:</b> <i>Puccinia, Gymnosporangium, Uromyces</i>	½ – 1 ½ teaspoons	Apply late spring or when symptoms first appear. Repeat every 7-14 days as needed during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil are specified.
<b>Tip Blight of Pine</b> <i>Sphaeropsis sapinea, Diplodia pinea</i>	1 ½ - 1 ½ teaspoons	Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 10-14 days later. Thorough coverage is essential for optimal disease control.
<b>Twig Blights, Cankers, and Diebacks</b> <i>Diaporthe, Kabatina, Phoma, Phomopsis</i>	1 ½ - 1 ½ teaspoons	Apply when symptoms first appear. Repeat every 7-14 days as needed during disease period.

## SOIL DRENCH APPLICATION

Diseases Controlled	Rate of 3336 F per gallon	Application Instructions
<b>Stem, Crown, and Root Rots caused by:</b> <i>Botrytis, Cythindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia</i> <b>Black Root Rot</b> <i>Thielaviopsis</i>	1-1 ½ teaspoons	Apply as a drench or directed spray at seeding (8 fl oz) or after transplanting (12-16 fl oz) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is ¼ -3 pints per sq ft depending on the media type and depth (about 4 fl oz per 4 inch pot or 8 fl oz per 6 inch pot). Repeat every 21-28 days for adequate crop protection.  <b>Precaution:</b> 3336 F does not control <i>Pythium</i> or <i>Phytophthora</i> . Tank mix combinations with metalaxyl, mfenoxam, etridiazole, propamocarb, Fosetyl-Al, or mono-and dipotassium salts of phosphorous acid are required for the control of <i>Pythium</i> and <i>Phytophthora</i> .

## PLANT DIP APPLICATION

Diseases Controlled	Rate of 3336 F per gallon	Application Instructions
<b>Plant or Cutting Diseases caused by:</b> <i>Botrytis, Cythindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis</i>	1- 1 ½ teaspoons	Immerse plants or cuttings for 10-15 min. Remove and allow to drain.  <b>Note:</b> Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial disease.
<b>Bulb, Corm, and Rhizome Rots caused by:</b> <i>Botrytis, Cythindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis</i>	1-1 ½ teaspoons	Soak cleaned bulbs for 15-30 min in warm solution (80-85° F). For storage disease prevention, treat bulbs preferably within 48 hours after digging. After treatment, dry well before storing. If bulbs are for forcing, treat bulbs that have been heat-cured.  <b>Note:</b> Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial disease.

## STORAGE AND DISPOSAL

**Pesticide Storage:** Do not contaminate water, food, or feed by storage or disposal. Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur.

**Pesticide Disposal and Container Handling:**

“Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.”

## WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

## LIMITATION OF LIABILITY

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**If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

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AN EXCLUSIVE LINE FROM



# SUPPLEMENTAL LABELING

# 3336<sup>®</sup> F

## TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE

Intended for Professional Applicators Only.

Group	<b>1</b>	Fungicide
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EPA Reg. No. 1001-69  
02-24-2017

**THIS SUPPLEMENTAL LABEL EXPIRES ON MARCH 1, 2020, AND MUST NOT BE USED OR DISTRIBUTED AFTER THIS DATE**

### LABEL REVISION

Use in Conifer Nurseries

- IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for 3336 F before applying.
- Use of 3336 F according to this supplemental labeling is subject to the use precautions and limitations imposed by the label affixed to the container for 3336 F.

## DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

### COMMERCIAL HORTICULTURAL APPLICATIONS

#### Conifer Nurseries

#### Restrictions:

Do not use fruits, nuts or sap from treated trees as food or feed.

**Product Information:** 3336 F is a broad spectrum systemic fungicide which controls a variety of foliar, stem, and root diseases on a wide range of commercially important plants. 3336 F is also effective as a pre-plant dip on cuttings and bulbs. For soil drench applications, best crop protection is achieved with preventative treatments repeated every 21-28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7-14 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent is specified for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker is specified to enhance product performance in wet weather conditions or during periods of overhead irrigation. 3336 F may be applied as a ground application using hand held, mechanical or motorized spray equipment, or as a chemigation spray or through an applicable sprinkler irrigation system; or as an overhead application where applicable. See specific instructions below.

**Note:** The "Directions For Use" of this product reflect the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate results. This product is not specified for use on Swedish Ivy (*Plectranthus australis*), Boston Fern (*Nephrolepis exhalta*), and Easter Cactus (*Hatiora gaertneri*).

**Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation, flood, or drip systems. Begin applications when disease first appears and repeat at 7-14 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. For hand held, mechanical, or motorized applications, mix 8-24 fl oz of 3336 F per 100 gal water (0.5-1.5 teaspoons per gal) and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Spray volume may range up to 400 gallons of finished spray per acre depending upon plant species and plant growth stage. For applications through irrigation systems, refer to use rates indicated in the foliar application chart. For small volume applications less than 100 gallons, divide specified rate by 16 to get the number of teaspoons of 3336 F per gal.

**Special Instructions for Proportional Injectors (e.g. Dosatron, Dosmatic, Anderson, and similar equipment)**

Determine the treatment rate for crop and pathogen from the foliar application table below. Determine the injection ratio for the individual system to be used for application. For systems using a 1:100 ratio, measure and add the exact amount of product per 100 gallons to each gallon of water in a stock bucket or tank. For systems using a 1:200 ratio, multiply the specified amount per 100 gallons by 2. For systems using a 1:50 ratio, divide the specified amount per 100 gallons added by 2. For systems using a 1:16 ratio, divide the specified amount per 100 gallons by 6. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ratio of 1:100 is specified for most greenhouse and nursery systems.

**Restriction:** Do not apply more than 3.0 lb AI per year.

**FOLIAR APPLICATION\***

Diseases Controlled	Rate of 3336 F	Application Instructions
<b>Anthracnose</b> <i>Colletotrichum</i>	12-16 fl oz/100 gal	Apply as buds break or at first sign of disease. Repeat at 7-14 day intervals as needed during disease period.
<b>Black Spot of Rose</b> <i>Diplocarpon rosae</i>	12-16 fl oz/100 gal	Apply early summer or at first sign of disease. Repeat every 7-14 days as needed during disease period.
<b>Brown Rot and Blight</b> <i>Monilinia, Sclerotinia, Whetzellinia</i>	12-16 fl oz/100 gal	Apply late spring or at first sign of disease. Repeat every 7-14 days as needed during disease period.
<b>Fusicladium and Venturia Leaf Scabs on:</b> Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	12-16 fl oz/100 gal	Apply as buds break. Repeat every 7-14 days during disease period. Effective control requires coverage during leaf expansion. Rotations and/or tank mix combinations with mancozeb (Protect), chlorothalonil or propiconazole can be utilized. Do not use fruit from treated crabapple or pear trees for food purposes.
<b>Leaf Spots and Blights caused by:</b> <i>Ascochyta, Blumeriella, Botrytis, Cercospora, Coccomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaeloma</i>	12-16 fl oz/100 gal	Apply when disease symptoms first appear. Repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil can be utilized.
<b>Ovulinia Blight</b>	8-16 fl oz/100 gal	Apply as flowers open. Repeat every 7-14 days during disease period.
<b>Powdery Mildews</b> <i>Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca</i>	12-24 fl oz/100 gal	Apply when disease first appears and repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or triadimefon can be utilized.

\* For Cut Flowers do not exceed 0.5 lb ai/acre/application

(continued)

**FOLIAR APPLICATION\* (Continued)**

Diseases Controlled	Rate of 3336 F	Application Instructions
<b>Rust Diseases caused by:</b> <i>Puccinia, Gymnosporangium, Uromyces</i>	12-16 fl oz/100 gal	Apply late spring or when symptoms first appear. Repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil are specified.
<b>Tip Blight of Pine</b> <i>Sphaeropsis sapinea, Diplodia pinea</i>	16-24 fl oz/100 gal	Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 14 days later. Thorough coverage is essential for optimal disease control.
<b>Twig Blights, Cankers, and Diebacks</b> <i>Diaporthe, Kabatina, Phoma, Phomopsis</i>	16-24 fl oz/100 gal	Apply when symptoms first appear. Repeat every 7-14 days during disease period.

\* For Cut Flowers do not exceed 0.5 lb ai/acre/application

**SOIL DRENCH APPLICATION**

Diseases Controlled	Rate of 3336 F	Application Instructions
<b>Stem, Crown, and Root Rots caused by:</b> <i>Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia</i>	8-16 fl oz/100 gal	Apply as a drench or directed spray using hand held, mechanical or motorized spray equipment or as a chemigation drench or directed spray using applicable sprinkler irrigation systems after seeding or sticking of cuttings (8 fl oz) or after transplanting (12-16 fl oz) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is 0.25 –3.0 pints of finished mixture per sq ft depending on the media type and depth (about 4 fl oz per 4 inch pot or 8 fl oz per 6 inch pot). Repeat every 21-28 days for adequate crop protection.  <b>Note:</b> 3336 F does not control <i>Pythium</i> or <i>Phytophthora</i> . Tank mix combinations with metalaxyl, mefenoxam, etridiazole, propamocarb, fosetyl-Al or mono- and dipotassium salts of phosphorous acid are required for the control of <i>Pythium</i> and <i>Phytophthora</i> .
<b>Black Root Rot</b> <i>Thielaviopsis</i>		

**NOTICE**

Read the "WARRANTY DISCLAIMER" and "LIMITATION OF LIABILITY" in the label booklet for this product before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

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